

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 16 October 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The withdrawal line of the Southwest Monsoon continues to pass through Lat. 28°N/Long.83°E, Faizabad, Fatehpur, Nowgong, Rajgarh, Ratlam, Vallabh Vidyanagar, Porbandar, Lat. 21°N/ Long.65°E and Lat. 21°N/ Long.60°.
- A Well Marked Low Pressure Area lies over Eastcentral Arabian Sea off north Maharashtra coast with associated cyclonic circulation extending upto mid-tropospheric levels. It is very likely to move west-northwestwards and concentrate into a Depression over Eastcentral & adjoining Northeast Arabian Sea off north Maharashtra-south Gujarat coasts during next 24 hours.
- Under the influence of the above system, the following adverse weather is likely:
 - (i) Heavy rainfall at isolated places is very likely to occur over Konkan & Goa on 16th and over coastal districts of south Gujarat on 16th & 17th October, 2020.
 - (ii) Fishermen are advised not to venture into the Sea along & off Maharashtra-south Gujarat coasts and over Eastcentral & adjoining Northeast Arabian sea during next 3 days.
- A fresh Low pressure area likely to form over central Bay of Bengal around 19th October. It is likely to become more marked during subsequent 24 hours. Under its influence, heavy to very heavy rainfall is likely at isolated place over Odisha and Coastal Andhra Pradesh and heavy rainfall at isolated places over the rest of the east peninsular coast of India during 18th-19th October, 2020.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Andaman & Nicobar Islands, Konkan & Goa, Coastal Karnataka, Lakshadweep and Kerala & Mahe; at many places over Vidarbha, Odisha and North Interior Karnataka; at a few places over Madhya Maharashtra, Marathawada, Chhattisgarh, Coastal Andhra Pradesh and South Interior Karnataka and at isolated places over Assam & Meghalaya, Nagaland,

Manipur, Mizoram & Tripura, Gangetic West Bengal, Madhya Pradesh, Gujarat state, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Assam & Meghalaya, Gangetic West Bengal, Chhattisgarh, Odisha, Madhya Maharashtra, Konkan & Goa and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 15-10-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Uttarakhand and Himachal Pradesh; at a few places over Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and Saurashtra & Kutch; at isolated places over East Uttar Pradesh and Arunachal Pradesh; above normal (1.6°C to 3.0°C) at most places over Bihar, Nagaland, Manipur, Mizoram & Tripura and Gangetic West Bengal; at many places over Jharkhand; at a few places over Punjab and Madhya Pradesh; at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Gujarat region. They were markedly below normal (-5.1°C or less) at many places over Madhya Maharashtra; appreciably above normal (-3.1°C to -5.0°C) at many places over North Interior Karnataka; at isolated places over Odisha, Coastal Karnataka, Andaman & Nicobar Islands and Konkan & Goa; below normal (-1.6°C to -3.0°C) at most places over Telangana; at many places over Vidarbha; at a few places over South Interior Karnataka; at isolated places over Marathawada and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.1°C was reported at Rajkot (Saurashtra & Kutch).
- Minimum Temperature Departures as on 16-10-2020: Minimum temperatures are markedly above normal (5.1°C or more) at many places over West Madhya Pradesh and Gujarat region; at a few places over Saurashtra & Kutch; at isolated places over Rajasthan and East Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Bihar, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at a few places over Vidarbha; at isolated places over Madhya Maharashtra and Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over Jharkhand and Marathawada; at many places over Uttarakhand, Chhattisgarh, Odisha, Gangetic West Bengal and Coastal Andhra Pradesh & Yanam; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Assam & Meghalaya and at isolated places over Tamil Nadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Haryana, Chandigarh &

Delhi; below normal (- 1.6°C to -3.0°C) at isolated places over Punjab and near normal over rest parts of the country. The lowest minimum temperature of 14.4°C reported at Hissar (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 16 October (Day 1): Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, south Konkan & Goa, north Coastal Andhra Pradesh and south Gujarat. Thunderstorm with lightning very likely at isolated places over Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Marathawada, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. Strong Winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Eastcentral and adjoining Northeast Arabian Sea along & off Maharashtra-south Gujarat coasts. Sea condition will be rough to very rough over these areas. Squally weather (wind speed reaching 40-50 kmph) likely over Central Bay of Bengal. Fishermen are advised not to venture into these areas.
- 17 October (Day 2): Heavy rainfall very likely at isolated places over Gujarat state and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. Strong Winds (speed reaching 45-55 kmph gusting to 65 kmph) very likely over Eastcentral and adjoining Northeast Arabian Sea along & off Maharashtra-south Gujarat coasts. Sea condition will be rough to very rough over these areas. Squally weather (wind speed reaching 40-50 kmph) likely over Central Bay of Bengal. Fishermen are advised not to venture into these areas.
- 18 October (Day 3): Heavy rainfall very likely at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Strong Winds (speed reaching 55-65 kmph gusting to 75 kmph) very likely over Eastcentral and adjoining Northeast Arabian Sea along & off Maharashtra-south Gujarat coasts. Sea condition will be rough to very rough over these areas. Fishermen are advised not to venture into these areas.
- 19 October (Day 4): Heavy to very heavy rainfall likely at isolated places over Odisha and Coastal Andhra Pradesh & Yanam and heavy rainfall at isolated

places over Andaman & Nicobar Islands, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning likely at isolated places over Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Strong Winds (speed reaching 55-65 kmph gusting to 75 kmph) likely over Central & Northwest Arabian Sea. Sea condition will be rough to very rough over these areas. Fishermen are advised not to venture into these areas.

- 20 October (Day 5): Heavy to very heavy rainfall likely at isolated places over Odisha, Telangana and Coastal Andhra Pradesh & Yanam and heavy rainfall at isolated places over Andaman & Nicobar Islands, Marathawada, Rayalaseema and Interior Karnataka. Thunderstorm with lightning likely at isolated places over Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Squally weather (wind speed reaching 45-55 kmph) likely over Westcentral Bay of Bengal and along & off Andhra Pradesh-north Tamil Nadu coasts. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 16 to 24 October 2020 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Madhya Pradesh

Weather condition:

High Tmax.: 37 C at Nowgaon, Datia and Hoshangabad districts - Low Tmin.: 16 C at Datia district - Rainfall: Max. RF of 100 mm in Chhindwara district - Day Temp.: Normal over the state - Night Temp.: 2 C above normal over the state - Overall, rainfall is depleted with the with drawl of SW monsoon

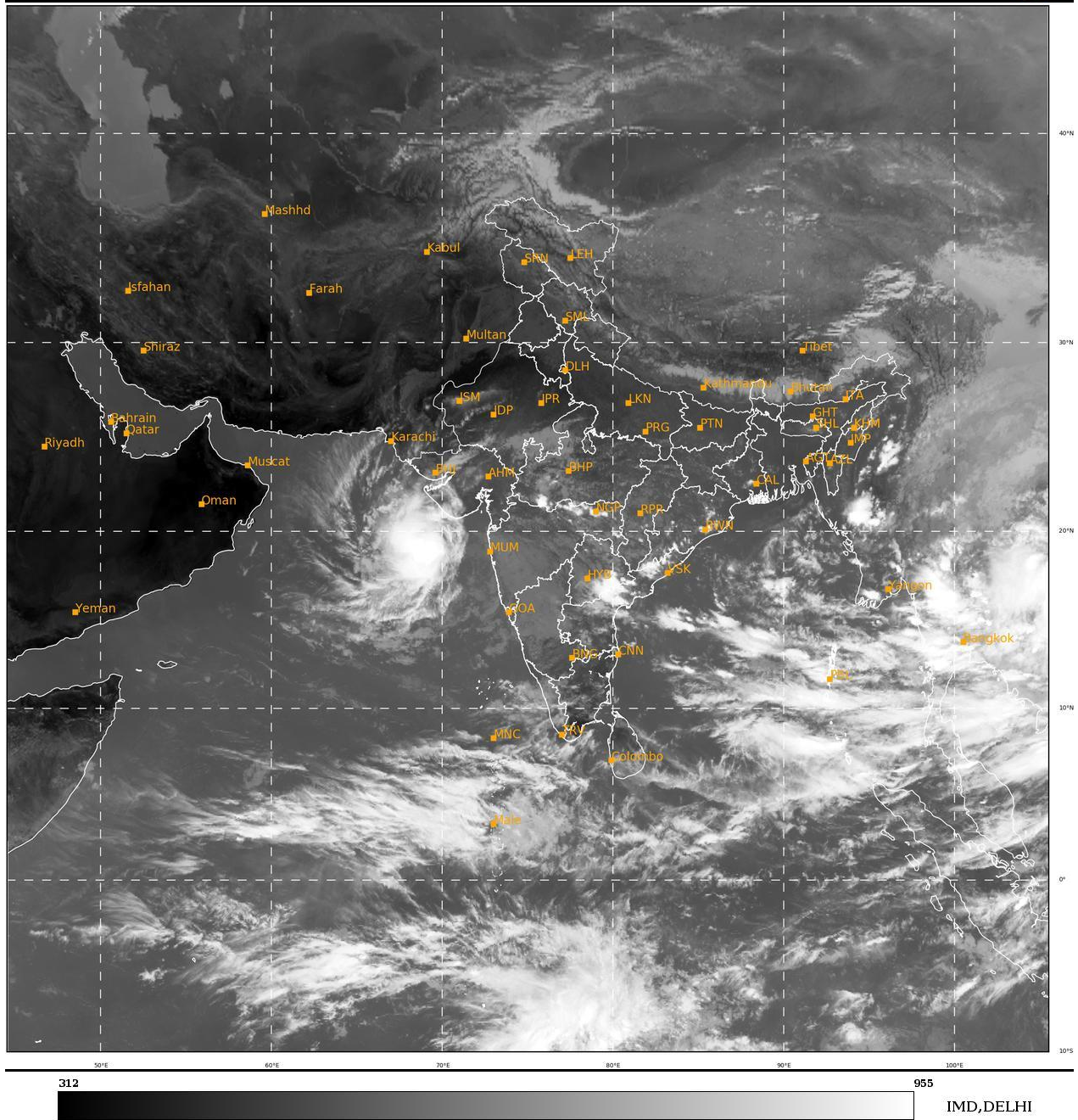
Contingency measure:

- General Advice : Plough the fallow field after rains cessation . If temperature reach 24-28 °C, then farmers are allowed to sown mustard and garden pea. In the coming five days medium amount of rain occurred in eastern region of Madhya Pradesh.
- Soybean: After harvesting of soybean, mung and urd, keep it under the shade and protect from moisture during raining days.

- Rice: Allow pest protection measures for leaf spot disease after consulting scientists from the nearest Krishi Vigyan Kendra. Conserve rain water in field by blocking the drainage channels or clogging to bunds
- Pigeonpea: Apply weed control measures through wheel hoe. Proper drainage of excess water is required.
- Vegetables: Infestation of sucking pests in solanaceous crops like okra, egg plant, tomatoes and chilli. Apply Dimethoate at 750 ml/ ha in 500-600 liters water at 10 days interval in an open environment. Cabbage and cauliflower nursery is needed. Due to excess moisture, monitoring of white flies by placing yellow sticky trap in the field. Spray of systemic insecticide for controlling mealy bug. Consult scientist from nearest KVK for the spray.
- Fruit tree: Allow pest protection measures as humidity is high. Weed control under the canopy of the tree. Guava, Pomegranate, citrus trees need application of fertilizer after the rains.
- Animal Husbandry & Poultry: As dense cloud is predicted, increase the number of light hours in poultry shed to improve egg production. Apply dry litter on the floor to make it dry for small chicks. Prepare field for sowing of berseem fodder after cessation of rains

SAT : INSAT-3D IMG
 IMG_TIR1 10.8 um
 L1C Mercator

16-10-2020/(0830 to 0857) GMT
 16-10-2020/(1400 to 1427) IST



**Figure: 1. Latest available satellite picture as on 16 October 2020 at 1427 Hrs (IST).
 (Source: IMD).**

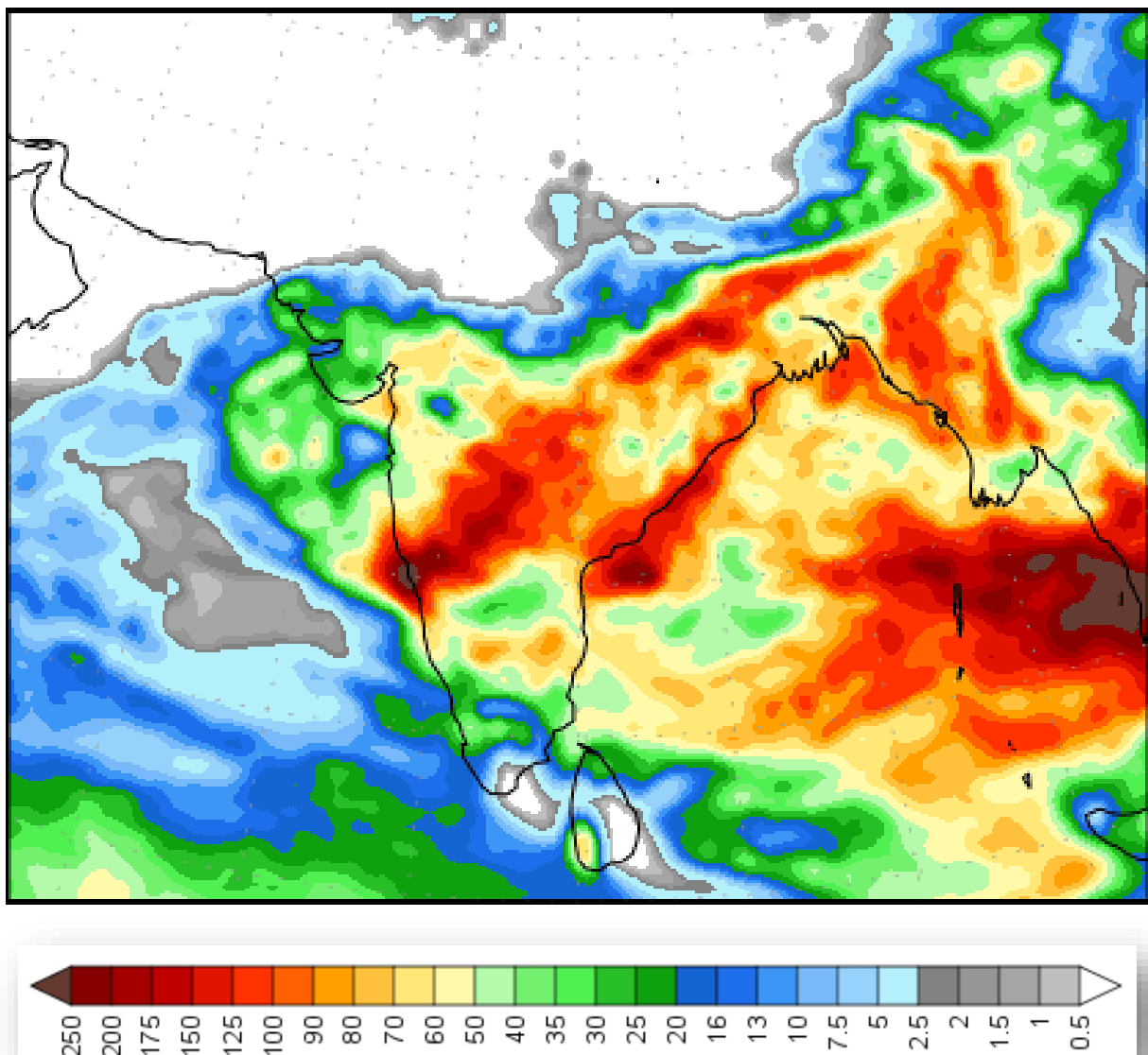


Figure:2. Precipitation forecast for 16 to 24 October 2020 (Source: NOAA NCEP).

Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.